

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Hirofumi HAMADA et al.	Confirmation No.:	8449
Serial No.:	10/546,000	Art Unit:	1722
371 (c) Date:	June 14, 2006	Examiner:	Not Yet Assigned
		Customer No.:	21559
Title:	METHODS FOR TREATING ISCHEMIC DISEASES		

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

PETITION TO CORRECT FILING RECEIPT

Further to the request to correct filing receipt submitted on December 27, 2006, applicants note that the assignee address was not corrected.

Applicants request that the enclosed filing receipt be corrected as follows.

In the "Assignment for Published Patent Application" section, please change the address of the Assignee DNAVEC Research, Inc. as follows:

"Tuskuba-shi, JAPAN"

to read:

"Tsukuba-shi, JAPAN."

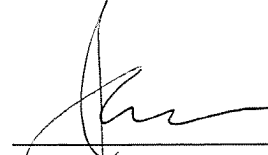
Enclosed are copies of the incorrect corrected filing receipt, the request to correct filing receipt submitted on December 27, 2006 (and accompanying documents), the assignment and electronic assignment transmittal as recorded on June 1, 2006, and the notice of recordation of assignment document that issued on June 2, 2006.

If there are any charges or any credits, please apply them to Deposit Account No.

03-2095.

Respectfully submitted,

Date: 2/1/2007



---

James D. DeCamp, Ph.D.  
Reg. No. 43,580

Clark & Elbing LLP  
101 Federal Street  
Boston, MA 02110  
Telephone: 617-428-0200  
Facsimile: 617-428-7045



## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/546,000	06/14/2006	1722	2190	50026/054001	21	19	4

21559  
CLARK & ELBING LLP  
101 FEDERAL STREET  
BOSTON, MA 02110

CONFIRMATION NO. 8449

## CORRECTED FILING RECEIPT



\*OC000000022053204\*

Date Mailed: 01/18/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

## Applicant(s)

Hirofumi Hamada, Sapporo-shi, JAPAN;  
Yoshinori Ito, Sapporo-shi, JAPAN;  
Kazuhiro Takahashi, Kushiro-shi, JAPAN;  
Masayuki Morikawa, Sapporo-shi, JAPAN;

## Assignment For Published Patent Application

DNAVEC Research, Inc., ~~Tsukuba-shi, JAPAN~~ **Tsukuba-shi, JAPAN**

**Power of Attorney:** The patent practitioners associated with Customer Number 21559.

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP04/00957 01/30/2004

## Foreign Applications

JAPAN 2003-040806 02/19/2003

**If Required, Foreign Filing License Granted:** 11/06/2006

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/546,000**

**Projected Publication Date:** 02/15/2007

**Non-Publication Request:** No

**Early Publication Request:** No

**Title**

Methods for treating ischemic diseases

**Preliminary Class**

117

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Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

#### **NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

Certificate of Mailing: Date of Deposit: December 27, 2006

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Collette D'Amico

Printed name of person mailing correspondence

*Collette D'Amico*

Signature of person mailing correspondence

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Hamada et al.	Art Unit:	1653
Serial No.:	10/546,000	Examiner:	Not Yet Assigned
371(c) Date:	June 14, 2006	Customer No.:	21559
		Confirmation No.:	8449
Title:	METHODS FOR TREATING ISCHEMIC DISEASES		

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

REQUEST TO CORRECT FILING RECEIPT

Applicants request that the enclosed filing receipt be corrected as follows.

Please change the address of Applicant Kazuhiro Takahashi as follows:

“Kushire-shi, JAPAN”

to read:

“Kushiro-shi, JAPAN”

Please change the address of the Assignee Dनावेक Research, Inc. as follows:

“Tuskuba-shi, JAPAN”

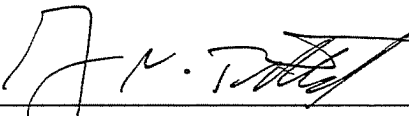
to read:

“Tsukuba-shi, JAPAN.”

Enclosed is a copy of the incorrect filing receipt indicating the change to be made.

In support of this request, Applicants enclose a copy of the Supplemental Application Data Sheet filed with the reply to the Notification of Missing Requirements on June 14, 2006. If there are any charges or any credits, please apply them to Deposit Account No. 03-2095.

Respectfully submitted,

Date: 27 December 2006   
Jan N. Tittel, Ph.D.  
Reg. No. 52,290

Clark & Elbing LLP  
101 Federal Street  
Boston, MA 02110  
Telephone: 617-428-0200  
Facsimile: 617-428-7045



## UNITED STATES PATENT AND TRADEMARK OFFICE

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CONFIRMATION NO. 8449

21559

CLARK & ELBING LLP  
 101 FEDERAL STREET  
 BOSTON, MA 02110

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FILING RECEIPT



NOV 16 2006

\*OC000000021132206\*

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CLARK &amp; ELBING LLP

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Hirofumi Hamada, Sapporo-shi, JAPAN;  
 Yoshinori Ito, Sapporo-shi, JAPAN;  
 Kazuhiro Takahashi, Kushiro-shi, JAPAN;  
 Masayuki Morikawa, Sapporo-shi, JAPAN;

Kushiro-shi

## Assignment For Published Patent Application

Dनावेक Research, Inc., Tuskuba-shi, JAPAN

TsuKuba-shi

Power of Attorney: The patent practitioners associated with Customer Number 21559.

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JAPAN 2003-040806 02/19/2003

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Projected Publication Date: 02/15/2007



Non-Publication Request: No

Early Publication Request: No

**Title**

Method for treating ischemic diseases

**Preliminary Class**

435

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### LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

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The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

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## Supplemental Application Data Sheet

### Application Information

Application number::	<u>10/546.000</u>
Filing Date::	08/18/05
Application Type::	Regular
Subject Matter::	Utility
Suggested Classification::	
Suggested Group Art Unit::	
CD-ROM or CD-R?::	None
Number of CD disks::	
Number of copies of CDs::	
Sequence submission?::	Paper
Computer Readable Form (CRF)?::	Yes
Number of copies of CRF::	1
Title::	METHODS FOR TREATING ISCHEMIC DISEASES
Attorney Docket Number::	50026/054001
Request of Early Publication?::	No
Request of Non-Publication?::	No
Suggested Drawing Figure::	
Total Drawing Sheets::	21
Small Entity?::	No
Petition Included?::	No
Petition Type::	
Licensed US Govt. Agency::	
Contract or Grant Numbers::	

Secrecy Order in Parent Appl.?:: No

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**Applicant Information**

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: Japan  
Status:: Full Capacity  
Given Name:: Hirofumi  
Middle Name::  
Family Name:: Hamada  
Name Suffix::  
City of Residence::  
State or Province of Residence:: Hokkaido  
Country of Residence:: Japan  
Street of mailing address:: 2-1-30-602, Miyagaoka, Chuo-ku  
City of mailing address:: Sapporo-shi  
State or Province of mailing address:: Hokkaido  
Country of mailing address:: Japan  
Postal or Zip Code of mailing address:: 064-0959

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: Japan  
Status:: Full Capacity  
Given Name:: Yoshinori  
Middle Name::  
Family Name:: Ito  
Name Suffix::

COPY

City of Residence::  
State or Province of Residence:: Hokkaido  
Country of Residence:: Japan  
Street of mailing address:: 1-1-409, Minami 21 Jou Nishi 15-chome, Chuo-ku  
City of mailing address:: Sapporo-shi  
State or Province of mailing address:: Hokkaido  
Country of mailing address:: Japan  
Postal or Zip Code of mailing address:: 064-0921

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: Japan  
Status:: Full Capacity  
Given Name:: Kazuhiro  
Middle Name::  
Family Name:: Takahashi  
Name Suffix::

City of Residence::  
State or Province of Residence:: Hokkaido  
Country of Residence:: Japan  
Street of mailing address:: ~~503, Matsui Building, Minami~~  
~~4 Jou Nishi 16-chome~~  
~~Chuo-ku~~  
2-21, Hoshigaura-Kita 3-chome  
City of mailing address:: ~~Sapporo-shi~~  
Kushiro-shi  
State or Province of mailing address:: Hokkaido

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Country of mailing address:: Japan  
Postal or Zip Code of mailing address:: ~~064-0804~~  
084-0911

Applicant Authority Type:: Inventor  
Primary Citizenship Country:: Japan  
Status:: Full Capacity  
Given Name:: Masayuki  
Middle Name::  
Family Name:: Morikawa  
Name Suffix::  
City of Residence::  
State or Province of Residence:: Hokkaido  
Country of Residence:: Japan  
Street of mailing address:: 6-6, Yamanote 1 Jou 2-chome, Nishi-ku  
City of mailing address:: Sapporo-shi  
State or Province of mailing address:: Hokkaido  
Country of mailing address:: Japan  
Postal or Zip Code of mailing address:: 063-0001

**Correspondence Information**

Correspondence Customer Number:: 21559

**Representative Information**

Representative Customer Number:: 21559

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**Domestic Priority Information**

Application:: Continuity Type::  
This Application National stage of

Parent Application:: Parent Filing Date::  
PCT/JP2004/000957 01/30/04

**Foreign Priority Information**

Country:: Application Number::  
JP 2003-040806

Filing Date::  
02/19/03

Priority Claimed::  
YES

**Assignee Information**

Assignee name:: DNAVEC Research, Inc.  
Street of mailing address:: 25-11, Kannondai 1-Chome  
City of mailing address:: Tsukuba-shi  
State of Province of mailing address:: Ibaraki  
Country of mailing address:: Japan  
Postal or Zip Code of mailing address:: 305-0856

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JUNE 02, 2006

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\*500110250A\*

JEFFREY C. KESSLER  
CLARK & ELBING LLP  
101 FEDERAL STREET  
BOSTON, MA 02110

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RECORDATION DATE: 06/01/2006

REEL/FRAME: 017708/0774

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 50026/054001

ASSIGNOR:

HAMADA, HIROFUMI

DOC DATE: 03/16/2006

ASSIGNOR:

ITO, YOSHINORI

DOC DATE: 03/23/2006

ASSIGNOR:

TAKAHASHI, KAZUHIRO

DOC DATE: 03/30/2006

ASSIGNOR:

MORIKAWA, MASAYUKI

DOC DATE: 03/27/2006

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov

017708/0774 PAGE 2

## ASSIGNEE:

DNAVEC RESEARCH INC.  
25-11, KANNONDAI 1-CHOME  
TSUKUBA-SHI, IBARAKI, JAPAN  
305-  
0856

SERIAL NUMBER: 10546000

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS FOR TREATING ISCHEMIC DISEASES

MARY BENTON, EXAMINER  
ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

## PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

06/01/2006  
500110250

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Hirofumi Hamada</td><td>03/16/2006</td></tr><tr><td>Yoshinori Ito</td><td>03/23/2006</td></tr><tr><td>Kazuhiro Takahashi</td><td>03/30/2006</td></tr><tr><td>Masayuki Morikawa</td><td>03/27/2006</td></tr></tbody></table>	Name	Execution Date	Hirofumi Hamada	03/16/2006	Yoshinori Ito	03/23/2006	Kazuhiro Takahashi	03/30/2006	Masayuki Morikawa	03/27/2006	
Name	Execution Date										
Hirofumi Hamada	03/16/2006										
Yoshinori Ito	03/23/2006										
Kazuhiro Takahashi	03/30/2006										
Masayuki Morikawa	03/27/2006										
RECEIVING PARTY DATA											
Name:	DNAVEC Research Inc.										
Street Address:	25-11, Kannondai 1-chome										
City:	Tsukuba-shi, Ibaraki										
State/Country:	JAPAN										
Postal Code:	305-0856										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>10546000</td></tr></tbody></table>	Property Type	Number	Application Number:	10546000							
Property Type	Number										
Application Number:	10546000										
CORRESPONDENCE DATA											
Fax Number: (617)428-7045											
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 6174280200											
Email: patentadministrator@clarkelbing.com											
Correspondent Name: Jeffrey C. Kessler											
Address Line 1: Clark & Elbing LLP											
Address Line 2: 101 Federal Street											
Address Line 4: Boston, MASSACHUSETTS 02110											
ATTORNEY DOCKET NUMBER:	50026/054001										
NAME OF SUBMITTER:	Jeffrey C. Kessler, Ph.D.										

CH \$40.00 10546000

Total Attachments: 3

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source=50026\_054001\_Assignment#page3.tif

**ASSIGNMENT**

For valuable consideration, we,

Full Name of Assignor	City	State (and Country if not USA)
Hirofumi Hamada	Sapporo-shi	Hokkaido, Japan
Yoshinori Ito	Sapporo-shi	Hokkaido, Japan
Kazuhiro Takahashi	<del>Sapporo-shi</del> Kushiro-shi K.T.	Hokkaido, Japan
Masayuki Morikawa	Sapporo-shi	Hokkaido, Japan

hereby assign to

Full Name of Assignee	State of Incorporation	Business Address
DNAVEC Research Inc.	Ibaraki	25-11, Kannondai 1-chome, Tsukuba-shi, Ibaraki 305-0856 Japan

and to its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are subject of one or more applications for United States Patent signed by us, identified as:

Title of Application	Filing Date	Serial Number
METHODS FOR TREATING ISCHEMIC DISEASES	August 18, 2005	10/546,000

and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment includes said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations, and like rights of exclusion, and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation, to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Sapporo, Japan

this 16 day of March, 2006  
~~2005~~

Hirofumi Hamada L.S.  
HIROFUMI HAMADA

Toshihiro Tanaka  
WITNESS #1

Toshihiro Tanaka  
PRINTED NAME

Noriko Uryu  
WITNESS #2

Noriko Uryu  
PRINTED NAME

IN WITNESS WHEREOF, I hereto set my hand and seal at Sapporo, Japan

this 23rd day of March, 2006  
~~2005~~

Yoshinori Ito L.S.  
YOSHINORI ITO

Masayuki Sato  
WITNESS #1

Masayuki Sato  
PRINTED NAME

Kazuto Ootaki  
WITNESS #2

KAZUTO OOTAKI  
PRINTED NAME

IN WITNESS WHEREOF, I hereto set my hand and seal at Kushiro, Japan

this 30th day of March, 2006  
~~2005~~

Kazuhiro Takahashi L.S.  
KAZUHIRO TAKAHASHI

Naoko Iga  
WITNESS #1

Naoko Iga  
PRINTED NAME

Tomomi Ishiyama  
WITNESS #2

Tomomi Ishiyama  
PRINTED NAME

IN WITNESS WHEREOF, I hereto set my hand and seal at Sapporo, Japan

this 27th day of March, 2005.<sup>6</sup>

Masayuki Morikawa L.S.  
**MASAYUKI MORIKAWA**

Sumiyo Asakura  
WITNESS #1

Sumiyo Asakura  
PRINTED NAME

Mitsuru Murakoshi  
WITNESS #2

Mitsuru Murakoshi  
PRINTED NAME